

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	4.64	04/18/2018 04/18/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2103_01_s_2012_2				
Comment Code					
Inspector Comment					
LMA regularly attends flood fight training put on by RD784 and DWR.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2103_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has a copy of the manual.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 South Dry Creek	Left	4.64	04/18/2018 04/18/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_RD2103_01_s_2013_6					
Comment Code						
Inspector Comment						
LMA stated that they have approx. 2500 sandbags and related flood fight material located in a mini storage in downtown Wheatland.						

No Photos

LM Start	0.01	Rating **	A	Issue No.	19
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.019819 °	39.041198 °
				-121.453903 °	-121.393029 °
DWR ID	DWR_RD2103_01_s_2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_RD2103_10_19_20180501_00046.jpg



View looking downstream landside of the maintained annual vegetation, Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 South Dry Creek	Left	4.64	04/18/2018 04/18/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	20
LM End	4.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.019820 °	39.041197 °
				-121.453903 °	-121.393029 °
DWR ID	DWR_RD2103_01_s_2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_RD2103_10_20_20180501_00048.jpg



View looking downstream waterside of the maintained annual vegetation, Spring 2018.

LM Start	0.20	Rating **	M	Issue No.	23
LM End	0.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.020856 °	39.020938 °
				-121.450629 °	-121.450237 °
DWR ID	DWR_RD2103_01_f_2015_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD2103_10_23_20180302_00006.jpg



View of squirrel holes on the waterside looking downstream but no evidence of animal activity during Fall 2017 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	4.64	04/18/2018 04/18/2018	Sterling York

LM Start	0.82	Rating **	A/W	Issue No.	36
LM End	0.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.024811 °	39.024811 °
				-121.440750 °	-121.440750 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:38325 DS_ID:19471 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 14.4 feet below the crown. Concrete headwall, flap-gate, and 3-foot by 6-foot concrete splash apron located on the waterside (WS) toe. Outfall drain from old Grasshopper Slough. [Additional Reference(s): DWR Levee Logs, 2005. USACE Sacramento O&M Manual Unit No. 146, November 1962, (HLM 0.83)] FS Date: 3/20/2014					

Photo 1 of 3 : UCIP_SP_2018_38325_69869.jpg



View of CMP crossing located on landward side.

LM Start	0.82	Rating **	A/W	Issue No.	36 (cont)
LM End	0.82	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_38325_69868.jpg



Close up view of crossing from landward side.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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Unit No. 01 South Dry Creek	Left	4.64	04/18/2018 04/18/2018	Sterling York

LM Start	0.82	Rating **	A/W	Issue No.	36 (cont)	
LM End	0.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.024811 °	39.024811 °	
				-121.440750 °	-121.440750 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38325 DS_ID:19471 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 14.4 feet below the crown. Concrete headwall, flap-gate, and 3-foot by 6-foot concrete splash apron located on the waterside (WS) toe. Outfall drain from old Grasshopper Slough. [Additional Reference(s): DWR Levee Logs, 2005. USACE Sacramento O&M Manual Unit No. 146, November 1962, (HLM 0.83)] FS Date: 3/20/2014						

Photo 3 of 3 : UCIP_SP_2018_38325_69873.jpg



View of levee crown at crossing.

LM Start	1.27	Rating **	N	Issue No.	26
LM End	1.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.027261 °	39.027261 °
				-121.433269 °	-121.433269 °
DWR ID	DWR_RD2103_01_s_2016_26				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stump needs to be removed fom slope.					

Photo 1 of 1 : SP_2018_RD2103_10_26_20180302_00007.jpg



View of tree stump on lanside levee slope. Fall 2016, still exist as of Fall 2017.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	4.88	04/18/2018 04/18/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	13
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.993256 °	39.031514 °
				-121.437688 °	-121.366996 °
DWR ID	DWR_RD2103_02_s_2018_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_RD2103_11_13_20180501_00032.jpg



View looking upstream landside of maintained annual vegetation, Spring 2018.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.993256 °	39.031514 °
				-121.437689 °	-121.366996 °
DWR ID	DWR_RD2103_02_s_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_RD2103_11_14_20180501_00033.jpg



View looking upstream waterside of maintained annual vegetation, Spring 2018.

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	4.88	04/18/2018 04/18/2018	Sterling York

Photo 1 of 5 : SP_2018_RD2103_11_12_20180302_00001.jpg



Photo taken at time of Fall 2017 Levee Inspection, looking upstream at the erosion site.

Photo 2 of 5 : SP_2018_RD2103_11_12_20180302_00002.jpg



10/09/2017

Photo taken at time of Fall 2017 Levee Inspection, looking upstream at the erosion site.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	4.88	04/18/2018 04/18/2018	Sterling York

LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)
LM End		Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		39.002378 °	°	
			-121.403611 °	°	

DWR ID DWR_RD2103_02_f_2017_12

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: 2017 Flood Fight Emergency Repair - 200 feet of site repaired in March 2017. Additional 50 feet requires repair after water receded. \$220,000 estimated total for completion and post project permits and mitigation

Site ID No: 488

Site Designation: LMA-326

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/27/2017

Notes: Site will likely degrade quickly due to lack of RSP along the lower portion of the bank slope and downstream end of site. At time of field visit, site does not appear to be any imminent threat of failure.

LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 3 of 5 : LEVAL_SP_2018_488_1808.jpg



Photo 4 of 5 : LEVAL_SP_2018_488_1810.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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LM Start	1.97	Rating **	A/W	Issue No.	12 (cont)
LM End		Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.002378 °	°
				-121.403611 °	°
DWR ID	DWR_RD2103_02_f_2017_12				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: 2017 Flood Fight Emergency Repair - 200 feet of site repaired in March 2017. Additional 50 feet requires repair after water receded. \$220,000 estimated total for completion and post project permits and mitigation</p> <p>Site ID No: 488</p> <p>Site Designation: LMA-326</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/27/2017</p> <p>Notes: Site will likely degrade quickly due to lack of RSP along the lower portion of the bank slope and downstream end of site. At time of field visit, site does not appear to be any imminent threat of failure.</p>					

Photo 5 of 5 : LEVAL_SP_2018_488_1812.jpg



LM Start	2.59	Rating **	M	Issue No.	24
LM End	2.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.009249 °	39.009249 °
				-121.397334 °	-121.397334 °
DWR ID	DWR_RD2103_02_s_2015_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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